

SITE ENTRY PLAN

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I. Introduction

- Ia. The site entry plan shall serve as one of the components in the overall site control/site safety program.
- Ib. The purpose of the site entry plan is for the prevention of contamination and injury of employees during the planning and evaluation stages of the hazardous waste clean-up operation.

II. Definitions

- IIa. Buddy System: a system of organizing employees into work groups in such a manner that each employee of the work group is designated to observe the activities of at least one other employee in the work group. The purpose of the buddy system is to provide quick assistance to other employees in the event of an emergency.
- IIb. Decontamination: the removal of hazardous substances from employees and their equipment to the extent necessary to preclude the occurrence of foreseeable adverse health effects.
- IIc. Established Permissible Exposure Limits (EPEL): the inhalation of dermal permissible exposure limit specified in 29 CFR, Part 1910, Subpart Z. If no EPEL has been specified, the employee shall consult the NIOSH Recommendations for Occupational Health Standards. If neither of the above specify an EPEL, the employee shall consult the Threshold Limit Value and Biological Exposure Indices prepared by the American Conference of Governmental Industrial Hygienists (ACGIH).
NOTE: The ACGIH Indices may only be consulted after first consulting the latter publications.
- IIId. Flammable Atmosphere: a concentration of flammable gas or vapor in air which may ignite if an ignition source is introduced. A flammable atmosphere shall be considered to exist if 25% of the lower explosive limit is detected.
- IIe. Hazardous Waste: a waste or combination of wastes as defined in 40 CFR 261.3 or those substances defined in 49 CFR 171.8

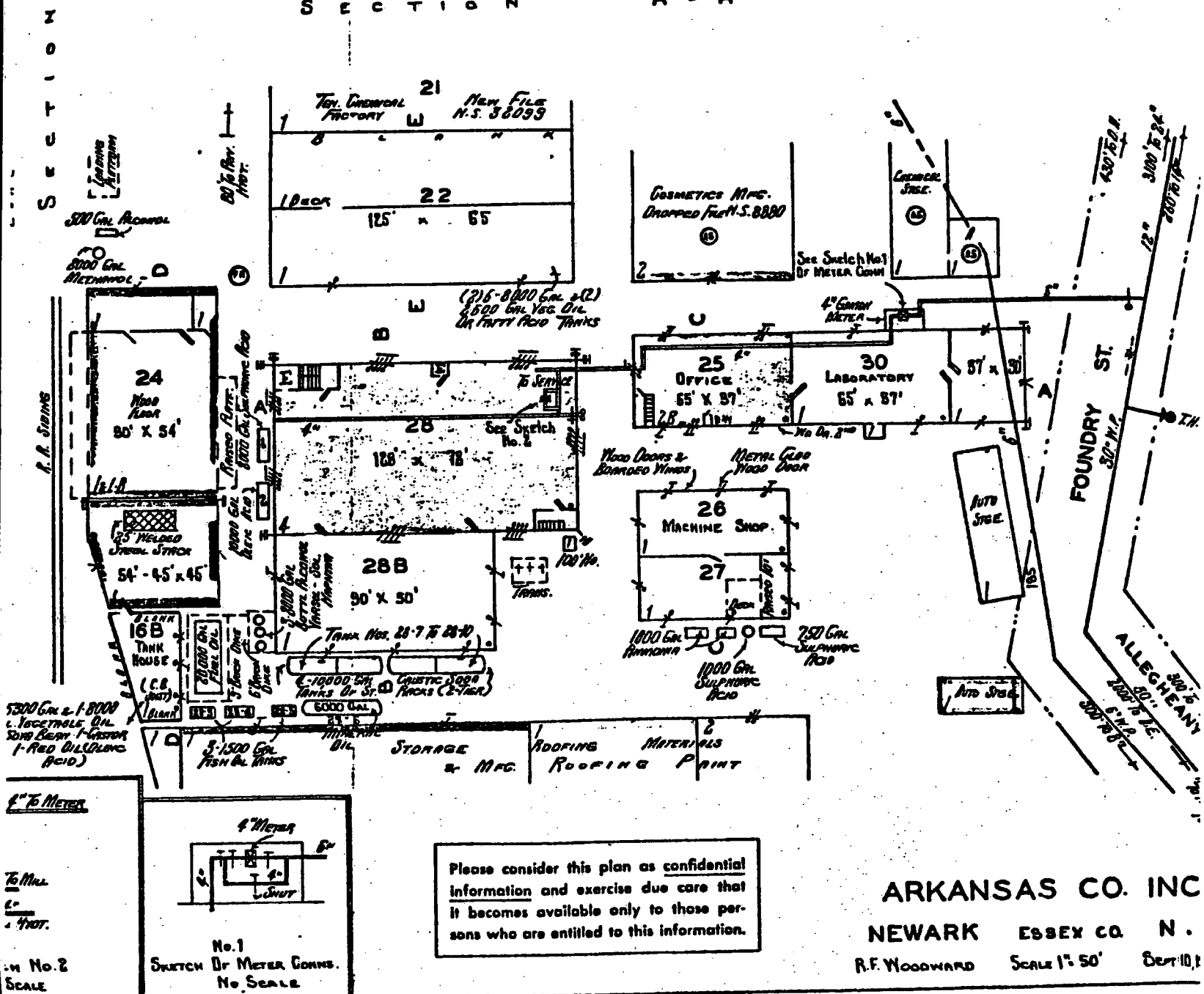
- II f. Hazardous Waste Site: the facility or location at which the hazardous waste clean-up operation within the scope of this site entry plan takes place.
- II g. Health Hazard: a chemical, mixture of chemicals or a pathogen for which there is statistically significant evidence based on at least one study conducted in accordance with established scientific principles that acute or chronic health effects may occur in exposed employees. The term "health hazard" includes chemicals which are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, sensitizers, hepatotoxins, nephrotoxins, neurotoxins, agents which act on the hematopoietic system, and agents which damage the lungs, eyes, skin or mucous membranes.
- II h. Immediately Dangerous to Life and Health (IDLH): any condition that poses an immediate threat to life, or which is likely to result in acute or immediate severe health effects. This shall include flammable atmospheres and oxygen deficient atmospheres.
- II i. Immediate Severe Health Effects: any acute clinical sign or symptom of serious exposure-related reaction, manifested within 72 hours after exposure to a hazardous substance.
- II j. Oxygen Deficiency: that concentration of oxygen by volume below which air supplied respiratory protection must be provided. It exists in atmospheres where the percentage of oxygen by volume is less than 19.5%.

- IIk. Personal Protective Equipment (PPE): The total ensemble of suit, boots, gloves (inner and outer) hardhat and respiratory protection worn by all entering the hazardous waste site. The level and type of PPE shall be determined by the Site Safety and Health Officer.
- III. Site Safety and Health Officer: the individual located at the hazardous waste site who possesses the necessary knowledge to implement the site safety and health plan and verify compliance with applicable health and safety requirements.

III. Site Maps

- IIIa. A map of the site shall be provided for the review by all employees, and others who may enter the site. A copy of the site map shall also be part of the permanent site safety plan.
- IIIb. When possible, maps delineating the established work zones shall be provided to all employees. No work zone map shall be prepared until the initial site entry/site assessment has been conducted. All work zone maps shall be approved by the Health and Safety Officer.
- IIIc. A map designating the best route to the nearest hospital shall be readily available in the event of an emergency. Extra copies of this map shall be kept on hand at all times. A copy of this map shall also be made part of the permanent site safety plan.

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15 WASHINGTON ST., NEWARK 2, N. J.



IV. Communications

IVa. The Health and Safety Officer shall be the responsible individual for determining the proper methods of communication at the site. The Health and Safety Officer shall also be responsible for instructing all participants in the preliminary site entry in the use of the selected communication method(s).

IVb. Each member of the site entry team shall be able to communicate with another entry team member at all times. Communications may be via the following methods:

- sound (air horn)
- electronic (radio, bull-horn)
- visual (hand signals)

IVc. Hand signals shall be mandatory for all employees regardless of the presence of other means of communications.

IVd. The following shall be used as standard hand signals for all who enter the site:

<u>SIGNAL</u>	<u>MEANING</u>
Hand gripping throat	Out of Air, Can't Breathe
Gripping partner's wrist or gripping both hands on wrist	LEAVE AREA IMMEDIATELY!
Hands on top of head	Need Assistance
Thumbs Up	OK, I'm alright, I understand
Thumbs Down	No, Negative

V. General Safety Procedures - Initial Site Entry

- Va. The initial site entry team shall enter the site employing specialized instrumentation to characterize the site hazards.
- Vb. As a minimum, the following instrumentation shall be taken into the Arkansas Chemical facility, during the initial site entry:
- combustible gas indicator
 - oxygen deficiency indicator
 - radiation indicator
 - OVA
 - HNu
- Vc. From this instrumentation, changes in the level of protective clothing may be made.
- Vd. LEVEL B PROTECTIVE CLOTHING SHALL BE WORN BY THOSE ENTERING THE EXCLUSION ZONE, DURING THE INITIAL SITE ENTRY.
- Ve. The initial site entry team shall make every effort not to do any work in the exclusion zone other than that of data collection.
- Vf. Every building at the Arkansas Chemical Co. shall be surveyed by the initial site entry team. No clean-up activity shall commence within any of buildings without first being surveyed with all of the instrumentation.
- Vg. As a minimum, the following shall be followed by those conducting the site entry:
- The buddy system shall be employed by all entry team members.
 - Line of sight contact as well as a communications system shall be established and implemented.
 - As a minimum, a third person, equipped as a safety back-up, shall be available during the entire time the entry team is conducting the initial site survey.

- Vh. Personnel and equipment in the exclusion zone shall be minimized to avoid contamination and the need for extensive decontamination operations.
- Vi. The procedure for leaving the site shall be discussed with all employees, prior to their entering the exclusion zone.

VI. Emergency Assistance

Via. The Health and Safety Officer shall affix, in a permanent fashion, a listing of all emergency telephone numbers, at the command post telephone.

Vib. All employees shall be shown the location of the telephone and emergency telephone list prior to making the initial site entry.

Vic. The listing of emergency Telephone Numbers shall be included as part of the permanent Site Safety Plan.

EMERGENCY TELEPHONE NUMBERS

NEWARK FIRE DEPT.733-7400

NEWARK POLICE DEPT.911

AMBULANCE.....911

HOSPITAL.....589-1300
(St. James Hospital)

US EPA HOTLINE.....548-8730

OH Materials (Ohio).....800-537-9540

OH Materials (NJ).....800-562-2953

DIRECTIONAL MAP - TO ST. JAMES
HOSPITAL, LOCATED AT VAN BUREN
AND LAFAYETTE STREETS, NEWARK.

